RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10

10/524,475

Source:

Date Processed by STIC:

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 02/22/2006
PATENT APPLICATION: US/10/524,475 TIME: 08:19:50

Input Set : A:\12286157.APP

```
3 <110> APPLICANT: CLINTON, MICHAEL
 5 <120> TITLE OF INVENTION: AVIAN SEX DETERMINATION METHOD
 7 <130> FILE REFERENCE: 102286.157 US1
9 <140> CURRENT APPLICATION NUMBER: 10/524,475
10 <141> CURRENT FILING DATE: 2005-02-11
12 <150> PRIOR APPLICATION NUMBER: PCT/GB03/003536
13 <151> PRIOR FILING DATE: 2003-08-13
15 <150> PRIOR APPLICATION NUMBER: GB 0218955.3
16 <151> PRIOR FILING DATE: 2002-08-14
18 <160> NUMBER OF SEQ ID NOS: 30
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEO ID NO: 1
23 <211> LENGTH: 318
24 <212> TYPE: DNA
25 <213> ORGANISM: Gallus gallus
27 <400> SEQUENCE: 1
28 agtgccgtta ctatgagcaa cccaaggaga accagacagt atatatatat gtgtatgact
                                                                        60
29 ctgcaaaacc tttgtagcgc gcattttccc ttgctgtgtt ttccttccgc ctgtgatcga
                                                                       120
30 ccgagaaaga gaacctgccc ctctacccct gcttccaacc agaatcatga aacactgtca
                                                                       180
31 cactgcggtg gtaaccatct ctgcattcct gtaacaaatc cttgcttttc tttctgtctt
                                                                       240
32 tttactattg ctttcgtcat cccacctccc atcccccggc ctagctaacc aaaactttct
                                                                       300
33 acaataaacc ggttgggc
                                                                       318
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 796
38 <212> TYPE: DNA
39 <213> ORGANISM: Gallus gallus
41 <400> SEQUENCE: 2
42 ggcgctgggg gctttttggt gccgatccct cccgtcaaat ggccgtcaaa tgttgacggg
                                                                       60
                                                                      120
43 gcaggccagg agtttgccat ctttgcatga agggacaggc aactcgggga gagtgcaagg
44 atgttgctag catgcgcagg gagaaaattc gacaggccaa agcccagcac gaccttaata
                                                                      180
45 tgqccqccat tgtttgaqat gattaaaact atgtttttac gaacatatta ataagagcaa
                                                                      240
46 gaggaggcc aaggagaatc tcccttcttt attcaacqcq qtggggaaca tcaccatcga
                                                                      300
47 ggaggaggga aaggetgaag tteecaaege ettetteaet tetggettta geagtgagae
                                                                      360
48 ctgctatccc cagggtactc agccccctga gctggaagac ggggccgggg agcagaataa
                                                                       420
                                                                      480
49 acgcccctcg attcccagtg ccttctttac ttctgtctgt ttctgactgt tgcacctgtg
                                                                      540
50 ctggacgtgc cgttactatg agtaacccaa ggagaaccgg acagtatata tatgtatgga
600
52 ccgagaaaga gaacccgccc ccccccgct tccaaccgga atcatgaaac attgtcacac
                                                                      660
                                                                      720
53 tgcggtggta accatctctg cattcctgta acaaatcctt gcttttcttt tctgtctttt
54 cactattgct ttcgtcatcc cacctcccat ccccaggcct agctaaccaa aacgttttac
                                                                      780
55 aataaaccgg ttgggc
                                                                      796
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 772
```

Input Set : $A:\12286157.APP$

60 <212> TYPE: DNA	
61 <213> ORGANISM: Gallus gallus	
63 <400> SEQUENCE: 3	
64 cggtcaaatg gccgtcaaat gttggcgggg caggccagga gtttgccatc tttggatgaa	60
65 ggacgggcaa ctcggggaga gtgccaggat gttgctagca tgcgcaggga gaaaattcga	120
66 caagccaaag cccagcaaga ccttaatctg gccgccattg ttcgagatga ttaaaacaat	180
67 gtttttacga acgtattagt agcaagagga gggccaagga gaatctccct tctttattcg	240
68 acgcggtggg gaacatcacc accgaggagg aggaaaaggc tgaagttctc aacgccttct	300
69 tcacttctgt ctttagcagt gagaccagct attctcaggg tactcagccc cctgagctgg	360
70 aagacggggc cggggagcag aataaacgcc cctcaattcc cagtgccttc tttacttctg	420
71 tctgttctga ctgttgcacc ggtgctggac gtgccgttac tatgagcaac ccaaggagaa	480
72 ccagacagta tagatatata tatatgtatg gactctgcaa aaacttttgt gcgcgctttt	540
73 cccttgctgt gttttccttc cgcctgtgat cgaccgagaa agagaacctg ccccccacc	600
74 cctgcttcca accagaatcg tgaaacattg tcacactgcg gtggtaacca tctctgcatt	660
75 cctgtaacaa atccttgctt ttcttttctg tcttttcact attgctttcg tcatcccgcc	720
76 toccatocco aggoctagot aaccaaaact ttotacaata aaccggttgg go	772
79 <210> SEQ ID NO: 4	
80 <211> LENGTH: 796	
81 <212> TYPE: DNA	
82 <213> ORGANISM: Gallus gallus	
84 <400> SEQUENCE: 4	
85 ggcgctgggg gctttttggt gccgatccct cccgtcaaat ggccgtcaaa tgttgacggg	60
86 gcaggccagg agtttgccat ctttgcatga agggacaggc aactcgggga gagtgcaagg	120
87 atgttgctag catgcgcagg gagaaaattc gacaggccaa agcccagcac gaccttaata	180
88 tggccgccat tgtttgagat gattaaaact atgtttttac gaacatatta ataagagcaa	240
89 gaggagggcc aaggagaatc tcccttcttt attcaacgcg gtggggaaca tcaccatcga	300
90 ggaggaggga aaggetgaag tteecaaege ettetteaet tetggettta geagtgagae	360
91 ctgctatccc cagggtactc agccccctga gctggaagac ggggccgggg agcagaataa	420
92 acgcccctcg attcccagtg ccttctttac ttctgtctgt ttctgactgt tgcacctgtg	480
93 ctggacgtgc cgttactatg agtaacccaa ggagaaccgg acagtatata tatgtatgga	540
94 ctctgcaaaa actttgcgcg cgcttttccc ttgttgtgtt ttccttcc	600
95 ccgagaaaga gaacctgccc cccccccgct tccaaccgga atcatgaaac attgtcacac	660
96 tgcggtggta accatctctg cattcctgta acaaatcctt gcttttcttt tctgtctttt	720
97 cactattgct ttcgtcatcc cacctcccat ccccaggcct agctaaccaa aacgttttac	780
98 aataaaccgg ttgggc	796
101 <210> SEQ ID NO: 5	
102 <211> LENGTH: 1283	
103 <212> TYPE: DNA	
104 <213> ORGANISM: Gallus gallus	
106 <400> SEQUENCE: 5	
107 cgcaacgggc gctcgttcca gagggcctgc gagcgcgcta gggtggggga ggggtgggac	60
108 gggagggcaa gggaagaatc gcgcgacgcg cagcaaagcc gcggctacct cctcgtccac	120
109 aacggctcct cctcgcggat aacgttggcg gagaactcct ggcgggcgac ttttcccaag	180
110 agageggege cacegegeea ggeggeegge gacetaacga tecegeegge catgaeggeg	240
111 cccgctcgct acaacactcc ctcagcccca aacctcccca gcacggctca gcatggctca	300
112 gcacggctcg gctcgcctcg gctcgcctcg gcccggtccc gccctcggcg gcgctcattg	360
113 ggccgacaga gcgccgcggc cgtttccgcg cctcggttgg ctgtctcgcc tgccctttaa	420
114 gettgteece geeetgtagg eggeteeget eeegteggee eggtgettat eggggeteag	480
115 ggacttaggc gctgggggct ttttggtgcc gatccctccc gtcaaatggc cgtcaaatgt	540

Input Set : A:\12286157.APP

	_						_		_	_		-				ggagag	600
																cacgac	660
																taata	720
																acatca	780
																tagca	840
																ggagc	900
	-		_		-			_								gttgc	960
																atatat	1020
																gcctg	1080
																acatt	1140
																tttct	1200
	_	gtcttttcac tattgctttc gtcatcccac ctcccatccc caggcctagc taaccaaaac										1260					
	8 gttttacaat aaaccggttg ggc . 128														1283		
	1 <210> SEQ ID NO: 6																
	2 <211> LENGTH: 285																
	.33 <212> TYPE: DNA .34 <213> ORGANISM: Meleagris gallopavo																
						agr	ıs ga	STTO	pavo								
	<400							. ~ . ~		~~ ~~	~+ ~+	2+2+	+ ~+		~~~ ~ 4	ataas	60
																ctgca	120
																gagaa	180
													240				
	- 55-55													285			
	<210	_		_				20000	o ca	ggcci	cage	caac					203
	45 <211> LENGTH: 294 46 <212> TYPE: DNA																
	17 <213> ORGANISM: Coturnix coturnix																
	49 <400> SEQUENCE: 7																
	·-														60		
														120			
														180			
	3.333.3													240			
															294		
157	157 <210> SEQ ID NO: 8																
158	<213	l> LE	ENGT	H: 91	L												
159	<212	2> TY	PE:	PRT													
160	<213	3 > OF	RGAN:	ISM:	Gall	.us 🤉	gallı	ıs									
	<400																
		Ser	Asn	Pro	Arg	Arg	Thr	Arg		-		Tyr	Met	Cys	Met	Thr	
164					5					10					15		
		Gln	Asn	Leu	Cys	Ser	Ala	His		Pro	Leu	Leu	Cys		Pro	Ser	
167				20					25					30			
	Ala	Cys	_	Arg	Pro	Arg	Lys	_	Thr	Cys	Pro	Ser		Pro	Ala	Ser	
170	_		35				_	40		_			45	•	_	_	
	Asn		Asn	His	Glu	Thr		Ser	His	Cys	Gly		Asn	His	Leu	Cys	
173		50			_	_	55				_	60	_,	_,			
	Ile	Pro	Val	Thr	Asn	Pro	Cys	Phe	Ser	Phe	Cys	Leu	Phe	Thr	Ile	Ala	
777																	
	65			_	_	70	Ile	_	_	_	75					80	

Input Set : A:\12286157.APP

Output Set: N:\CRF4\02222006\J524475.raw

179 90 182 <210> SEQ ID NO: 9 183 <211> LENGTH: 15 184 <212> TYPE: PRT 185 <213> ORGANISM: Gallus gallus 187 <400> SEQUENCE: 9 188 Met Lys His Cys His Thr Ala Val Val Thr Ile Ser Ala Phe Leu 189 1 192 <210> SEQ ID NO: 10 193 <211> LENGTH: 36 194 <212> TYPE: PRT 195 <213> ORGANISM: Gallus gallus 197 <400> SEQUENCE: 10 198 Met Leu Leu Ala Cys Ala Gly Arg Lys Phe Asp Arg Pro Lys Pro Ser 10 5 201 Thr Thr Leu Ile Trp Pro Pro Leu Phe Glu Met Ile Lys Thr Met Phe 202 25 204 Leu Arg Thr Tyr 205 35 208 <210> SEQ ID NO: 11 209 <211> LENGTH: 76 210 <212> TYPE: PRT 211 <213> ORGANISM: Gallus gallus 213 <400> SEQUENCE: 11 214 Met Tyr Gly Pro Cys Lys Asn Phe Ala Arg Ala Phe Pro Leu Leu Cys 217 Phe Pro Ser Ala Cys Asp Arg Pro Arg Lys Arg Thr Arg Pro Pro Pro 20 218 25 220 Ala Ser Asn Arq Asn His Glu Thr Leu Ser His Cys Gly Gly Asn His 221 35 40 223 Leu Cys Ile Pro Val Thr Asn Pro Cys Phe Ser Phe Leu Ser Phe His 55 226 Tyr Cys Phe Arg His Pro Thr Ser His Pro Gln Ala 227 65 70 230 <210> SEQ ID NO: 12 231 <211> LENGTH: 26 232 <212> TYPE: PRT 233 <213> ORGANISM: Gallus gallus 235 <400> SEQUENCE: 12 236 Met Leu Thr Gly Gln Ala Arg Ser Leu Pro Ser Leu His Glu Gly Thr 5 239 Gly Asn Ser Gly Arg Val Gln Gly Cys Cys 240 20 243 <210> SEQ ID NO: 13 244 <211> LENGTH: 51 245 <212> TYPE: PRT 246 <213> ORGANISM: Gallus gallus 248 <400> SEQUENCE: 13

249 Met Asp Pro Ala Lys Thr Leu Arg Ala Leu Phe Pro Cys Cys Val Phe

Input Set : A:\12286157.APP

Output Set: N:\CRF4\02222006\J524475.raw

```
5
250 1
252 Leu Pro Pro Val Ile Asp Arg Glu Arg Glu Pro Ala Pro Pro Pro Leu
253 20
                                   25
255 Pro Thr Gly Ile Met Lys His Cys His Thr Ala Val Val Thr Ile Ser
256 35
                              40
258 Ala Phe Leu
259
      50
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 5
264 <212> TYPE: PRT
265 <213> ORGANISM: Gallus gallus
267 <400> SEQUENCE: 14
268 Met Ala Val Lys Cys
269 1
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 36
274 <212> TYPE: PRT
275 <213> ORGANISM: Gallus gallus
277 <400> SEQUENCE: 15
278 Met Lys Gly Gln Ala Thr Arg Gly Glu Cys Lys Asp Val Ala Ser Met
279 1
        5
281 Arg Arg Glu Lys Ile Arg Gln Ala Lys Ala Gln His Asp Leu Asn Met
                                 25
284 Ala Ala Ile Val
285 35
288 <210> SEQ ID NO: 16
289 <211> LENGTH: 32
290 <212> TYPE: PRT
291 <213> ORGANISM: Gallus gallus
293 <400> SEQUENCE: 16
294 Met Ser Asn Pro Arg Arg Thr Gly Gln Tyr Ile Tyr Val Trp Thr Leu
       5
                                      10
297 Gln Lys Leu Cys Ala Arg Phe Ser Leu Val Val Phe Ser Phe Arg Leu
               20
                                   25
298
301 <210> SEQ ID NO: 17
302 <211> LENGTH: 51
303 <212> TYPE: PRT
304 <213> ORGANISM: Gallus gallus
306 <400> SEQUENCE: 17
307 Met Leu Ala Gly Gln Ala Arg Ser Leu Pro Ser Leu Asp Glu Gly Arg
                                       10
310 Ala Thr Arg Gly Glu Cys Gln Asp Val Ala Ser Met Arg Arg Glu Lys
               20
                                   25
313 Ile Arg Gln Ala Lys Ala Gln Gln Asp Leu Asn Leu Ala Ala Ile Val
314
           35
                               40
316 Arg Asp Asp
       50
320 <210> SEQ ID NO: 18
```

321 <211> LENGTH: 76

VERIFICATION SUMMARY

DATE: 02/22/2006

PATENT APPLICATION: US/10/524,475

TIME: 08:19:51

Input Set : A:\12286157.APP